	Application No.	Applicant(s)
Notice of Allowability	09/660,005	SAULPAUGH ET AL.
	Examiner	Art Unit
	GREG BENGZON	2444

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to _Amendment After Final received 09/25/2008_.

2. ☒ The allowed claim(s) is/are _1-4, 6,7,14-19, 27-31 renumbered 1-17 respectively_.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:
        1. ☐ Certified copies of the priority documents have been received.
        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the
            International Bureau (PCT Rule 17.2(a)).
    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .
    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
    Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
    Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____ .

Allowable Subject Matter

Claims 1-4, 6,7,14-19, 27-31 are allowed.

The following is an examiner's statement of reasons for allowance:

The provision for -- a message endpoint constructor and a method for creating a message endpoint on a device in a distributed computing environment, the method comprising:

receiving an address for a service within the distributed computing environment;

receiving an authentication credential indicating authorization to access said service;

linking said address to a pre-generated message interface for accessing said service, wherein said pre-generated message interface is implemented by computer-executable code installed on said device during a code-build process for installation of code on the device to implement said receiving and said linking, wherein said linking creates a message endpoint for said device to send messages to said service at said address in order to access said service, and wherein said linking comprises linking said authentication credential to said pre-generated message interface, wherein said message endpoint is configured to include said authentication credential with each message sent to said address; and

using said message endpoint to send messages to said address to access said

service

-- wherein all the features previously described are combined in one singular

embodiment,   is not fairly taught or suggested by the prior art of record.

The Examiner finds particular novelty in the method for creating a message

endpoint on a device as described in the Applicant Specification (page 14 Lines 20-30 ,

page 37 Lines 5-20, Page 39 Lines 20-25) wherein the message endpoint constructor

receives *an authentication credential indicating authorization to access said service*

and wherein said linking comprises linking said authentication credential to said pre-

generated message interface, wherein said message endpoint is configured to include

said authentication credential with each message sent to said address.   Furthermore

there is also novelty wherein the message endpoint constructor <u>in the device is</u>

<u>configured to locate a service advertisement for the service, wherein said service</u>

<u>advertisement comprises an address for said service and indicates a message schema</u>

<u>for said service; and wherein said message endpoint constructor is configured to verify</u>

<u>that said pre-generated message interface corresponds to said message schema.</u>

(Page 40 Lines 5-15)

Weschler disclosed a method and computer program product providing for implementation of a method for allowing a first service to gain reference to a second service in a computer system. The method comprises the steps of defining a service connector interface in conjunction with the first service, invoking the service connector interface in conjunction with the second service and gaining reference to the first service by the second service. However Weschler does not disclose wherein the message endpoint constructor receives *an authentication credential indicating authorization to access said service and wherein said linking comprises linking said authentication credential to said pre-generated message interface, wherein said message endpoint is configured to include said authentication credential with each message sent to said address.* Furthermore Weschler does not disclose wherein the message endpoint constructor in the device is *configured to locate a service advertisement for the service, wherein said service advertisement comprises an address for said service and indicates a message schema for said service; and wherein said message endpoint constructor is configured to verify that said pre-generated message interface corresponds to said message schema.*

Roberts disclosed a module/mechanism (referred to as a template) that produces code that may be utilized to create a web service. Thus, a template is formed and utilized to create a model that can generate an application or web service. Each template is comprised of a list of features, and a model (referred to as a run time model or RTM). An RTM is an XML document that declares the structure, functionality, and behavior of a web service application (referred to as a WSA). However Roberts did not

disclose wherein the message endpoint constructor receives *an authentication credential indicating authorization to access said service and wherein said linking comprises linking said authentication credential to said pre-generated message interface, wherein said message endpoint is configured to include said authentication credential with each message sent to said address.* Furthermore Roberts does not disclose wherein the message endpoint constructor in the device is *configured to locate a service advertisement for the service, wherein said service advertisement comprises an address for said service and indicates a message schema for said service; and wherein said message endpoint constructor is configured to verify that said pre-generated message interface corresponds to said message schema.*

Chen disclosed a dynamic agent infrastructure designed to make it easier to develop autonomous software agents with modifiable behaviors, to construct, modify, and move services dynamically, without shutdown/restart, and to retool clients by loading new programs on the fly (dynamically). In this way, the infrastructure greatly simplifies the deployment of application specific, cooperative multiagent systems. However Chen does not disclose wherein the message endpoint constructor receives *an authentication credential indicating authorization to access said service and wherein said linking comprises linking said authentication credential to said pre-generated message interface, wherein said message endpoint is configured to include said authentication credential with each message sent to said address.* Furthermore Chen does not disclose wherein the message endpoint constructor in the device is *configured*

to locate a service advertisement for the service, wherein said service advertisement

comprises an address for said service and indicates a message schema for said

service; and wherein said message endpoint constructor is configured to verify that said

pre-generated message interface corresponds to said message schema.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to GREG BENGZON whose telephone number is

(571)272-3944. The examiner can normally be reached on Mon. thru Fri. 8 AM - 4:30

PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Vaughn can be reached on (571)272-3922. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/G. B./
Examiner, Art Unit 2444

/Paul H Kang/
Primary Examiner, Art Unit 2444